

What is claimed is:

1. In a radio telephone system consisting of a system main body and a wireless handset disposed at the system main body, a power supply device for the radio telephone system, comprising:

a power failure detector for detecting power failure according to a direct current power state;

a power switching unit for switching battery power of a wireless handset to the inside circuit of the main body during the power failure according to the output signal from the power failure detector; and

a battery power intercepting unit for intercepting power of the battery of the wireless handset to be supplied to the inside circuit of the wireless handset during the power failure according to the output signal from the power failure detector.

2. The device according to claim 1, further comprising:

a charging power supply unit for receiving the direct current power, and outputting charging power of the battery of the wireless handset; and

a main body voltage supply unit for receiving the direct current power, and outputting operational power of the system main body.

3. In a radio telephone system consisting of a system main body and a wireless handset disposed at the system main body, a power supply device for the radio telephone system, comprising:

a charging power supply unit for receiving direct current power, and

outputting operational power of the system main body and battery charging voltage of the wireless handset;

a power failure detector for detecting power failure according to a direct current power state;

5 a battery disposed at the wireless handset;

a first switch for switching the power of the battery to the inside circuit of the main body during the power failure; and

a second switch for preventing the power of the battery from being inputted to the inside circuit of the wireless handset during the power failure.

10 4. A power supply device for a radio telephone system, comprising:

a battery disposed at a main body of the system;

a charging power supply unit for receiving direct current power, and outputting a charging voltage of the battery;

15 a main body voltage supply unit for receiving the direct current power, and outputting operational power of the system main body;

a power failure detector for detecting power failure according to a direct current power state; and

20 a switch for providing power of the battery to the inside circuit of the main body during the power failure according to the output signal from the power failure detector.

5. The device according to claim 4, further comprising:

25 a diode forwardly connected between an input terminal of a wireless handset and the battery for preventing the power of the battery from being inputted

to the wireless handset during the power failure.

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